



PTO-1449 (Modified)

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ATTY. DOCKET NO.

57.0410 US PCT

SERIAL NO.

10/088,723

APPLICANTS

Couet et al

FILING DATE

07/22/02

GROUP

2856

REFERENCE DESIGNATION U.S. PATENT DOCUMENTS.

Examiner Initial		Document No.	Date	Patentee
T.B.	AA	3 341 835	09/12/67	Werner et al
	AB	3 926 271	12/16/75	Patashnick
	AC	3 970 146	07/20/76	Keenan Jr
	AD	4 280 557	07/28/81	Bodine
	AE	4 320 528	03/16/82	Scharton et al
	AF	4 444 146	04/24/84	De Witz et al
	AG	4 553 137	11/12/85	Marxer et al
	AH	4 669 310	06/02/87	Lester
	AI	4 718 774	01/12/88	Slough
	AJ	4 856 584	08/15/89	Seidner
	AK	4 872 347	10/10/89	Okabe et al
	AL	4 994 671	02/19/91	Safinya et al
	AM	5 038 033	08/06/91	Carroll et al
	AN	5 072 388	12/10/91	O'Sullivan et al
	AO	5 092 176	03/03/92	Buttram et al
	AP	5 112 642	05/12/92	Wajid
	AQ	5 159 838	11/03/92	Lynnworth
	AR	5 184 678	02/09/93	Pechkov et al
	AS	5 201 215	04/13/93	Granstaff et al
	AT	5 591 922	01/07/97	Segeral et al
	AU	5 595 243	01/21/97	Maki Jr et al
	AV	5 646 338	07/08/97	Mercusot et al



AW	5 661 223	08/26/97	Spates et al
AX	5 676 213	10/14/97	Auzerais et al
AY	5 727 628	03/17/98	Patzner
AZ	5 734 098	03/31/98	Kraus et al
BA	5 735 226	04/07/98	McNeal
BB	5 831 743	11/03/98	Ramos et al
BC	5 889 209	03/30/99	Piedrahita et al
BD	5 969 235	10/19/99	Allan

FOREIGN PATENT DOCUMENTS

	Document No.	Date	Country	Translation	
				Yes	No
BE					
BF	2 165 330 A	10/04/84	GB		
BG	2 351 810 B	08/17/99	GB		
BH	93/24199	06/02/93	WO		

OTHER INFORMATION PROVIDED (AUTHOR, TITLE, DATE, PLACE OF PUBLICATION PERTINENT PAGES, ETC.)

BI	Allen, T.O. and Roberts, A.P., <i>Production Operations</i> , Vol. 2, 2nd edition, pp. 11-19, OGCI, Tulsa, Ok. (1982)
BK	Ref. 1, pp. 171-181. Allen, T.O. and Roberts, A.P., <i>Production Operations</i> , Vol. 2, 2nd edition, OGCI, Tulsa, Ok. (1982)
BL	Putnis, A. Putnis, C.V. and Paul, J.M., "The efficiency of a DTPA-based solvent in the dissolution of barium sulfate scale deposits", <i>SPE International Symp. Oilfield Chemistry</i> , San Antonio, Texas, February 1995, SPE 29094
BM	Jasinski, R. Taylor, K. and Fletcher, P., Taylor K, "Calcite scaling tendencies for North Sea HTHP wells: prediction, authentication and application", <i>SPE Symp. Oilfield Scale</i> , New Orleans, Louisiana, September 1998;
BN	Calange, S., Ruffier-Meray, V. and Behar, E., "Onset crystallization temperature and deposit amount for waxy crudes: experimental determination and thermodynamic modelling", <i>SPE International Symp. Oilfield Chemistry</i> , Houston, Texas, February 1997, SPE 37239
BO	Gunaratne, G.P.P. and Keatch, R.W., "Novel techniques for monitoring and enhancing dissolution of mineral deposits in petroleum pipelines", <i>SPE Offshore Europe Conference</i> , Aberdeen, Sept. 1995, SPE 30418.
BP	Gunaratne, G.P.P. and Keatch, R.W., "Novel techniques for monitoring and enhancing dissolution of mineral deposits in petroleum pipelines", <i>Ultrasonics</i> , 34, 411-419 (1996)
BQ	Martin, S.J., Granstaff, V.E. and Frye, G.C., "Characterisation of a quartz crystal microbalance with simultaneous mass and liquid loading", <i>Anal. Chem.</i> , 63, 2272-2281 (1991).



BR	Sivaraman, A., Hu, Y., Thomas, F.B., Bennion, D.B. and Jamaluddin, A.K.M., "Acoustic resonance: an emerging technology to identify wax and asphaltene precipitation onset in reservoir fluids", <i>48th Annual Tech. Meet. The Petroleum Society</i> , Calgary, Canada, June 8-11, 1997, paper CIM 97-96.
BS	Jamaluddin, A.K.M., Sivaraman, A., Imer, D. Thomas, F.B. and Bennion, D.B., "A proactive approach to address solids (wax and asphaltene) precipitation during hydrocarbon production", <i>8th Abu Dhabi Intern. Petroleum Exhibit.</i> , Abu Dhabi, U.A.E., 11-14 October, 1998, SPE 49465
BT	Emmons, D.H. and Jordan, M.M., "The development of near-real time monitoring of scale deposition", <i>SPE Oilfield Scale Symposium</i> , Aberdeen, 27-28 Jan., 1999
BU	Emmons, D.H., Graham, G.C., Holt, S.P., and Jordan, M.M., "On-site, near-real-time monitoring of scale deposition", <i>SPE Annual Technical Conference and Exhibition</i> , Houston, Oct 1999, SPE 56776
BV	Gabrielli, C., Keddah, M., Khalil, A., Maurin, G., Perrot, H., Rosset, R. and Zidoune, M., "Quartz crystal microbalance investigation of electrochemical calcium carbonate scaling", <i>J. Electrochem. Soc.</i> , 145 , 2386-2395 (1998).
BW	Nohata, Y. and Taguchi, H., "An ultrasensitive fouling monitoring system for cooling towers", <i>Materials Performance</i> , 34 , 43-46 (1995).
BX	Stock, D.D., "The use of pressure drop measurements to monitor scale build-up in pipelines and wells", <i>Geothermal Resources Council Trans.</i> , 14 , 1645-1651 (1990).
BY	Oilfield Production Analysts Ltd, Aberdeen: product brochures for P-MAC 2000, 3000 and 4000 series.
BZ	Flemming, H-C., Tamachkiorawa, A., Klahre, J. and Schmitt, J., "Monitoring of fouling and biofouling in technical systems", <i>Water Sci. Tech.</i> , 38 , 291-298 (1998).
CA	Esche, R., "Untersuchung der Schwingungskavitation in Flüssigkeiten", <i>Acustica</i> , 2 , AB208-218 (1952);
CB	Mason, T.J. and Lorimer, J.P., <i>Sonochemistry: Theory, Applications and Uses of Ultrasound in Chemistry</i> , p 31, Ellis Horwood, Chichester, UK (1988).
CC	Gollapudi, U.K., Bang, S.S. and Islam, M.R., "Ultrasonic treatment for removal of asphaltene deposits during petroleum production", <i>SPE International Conf. Formation Damage Control</i> , Lafayette, Louisiana, February 1994, SPE 27377
CD	Venkitaraman, A., Roberts, P.M. and Sharma, M.M., "Ultrasonic removal of near-wellbore damage caused by fines and mud solids", <i>SPE Drilling & Completions</i> , 10 , 193-197 (1995).
CE	Roberts, P.M., Venkitaraman, A. and Sharma, M.M., "Ultrasonic removal of organic deposits and polymer induced formation damage", <i>SPE Formation Damage Control Symp.</i> , Lafayette, Louisiana, February 1996, SPE 31129
CF	Widener, M.W., "The development of high-efficiency narrow-band transducers and arrays", <i>J. Acoust. Soc. Amer.</i> , 67 , 1051-7 (1980);
CG	Widener, M.W., "The development of a deep submergence air-backed transducer", <i>J. Acoust. Soc. Amer.</i> , 80 , 1852-3 (1986).
CH	Lal, A. and White, R.M., "Silicon microfabricated horns for power ultrasonics", <i>Sensors and Actuators</i> , A54 , 542-546 (1996).

EXAMINER

DATE CONSIDERED

7/29/03

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.

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2. This is not a representation that a search has been made.